

In the Claims

What is claimed is:

1. - 19. (cancelled)

20. (previously presented) A stent comprising at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top circumferential side, a bottom circumferential side, a right side and a left side, wherein the top and bottom circumferential sides are substantially flat, and the left and rights sides are substantially curved.

21. (previously presented) The stent of claim 20 wherein the strut has a plurality of straight sections joined by a plurality of crown sections.

22. (previously presented) The stent of claim 20 wherein the strut is made of metal.

23. (previously presented) The stent of claim 22 wherein the strut is electro-polished.

24. (previously presented) The stent of claim 20 wherein the stent is fused to a second stent.

25. (previously presented) The stent of claim 20 wherein the second stent further comprises at least one second stent strut, the at least one second stent strut has a second stent transverse cross section, the second stent transverse cross section having a second stent top circumferential side, a second stent bottom circumferential side, a second stent right side and a second stent left side, wherein the second stent top and second stent bottom_circumferential sides are substantially flat, and the second stent left and second stent right sides are substantially curved.

26. - 27. (cancelled)

28. (previously presented) The stent of claim 20 wherein the stent is self expanding.

29. - 30. (cancelled)

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31. (previously presented) A system for treating a vessel lumen comprising:

a stent having a lumen there through;

a catheter at least partially extending through the lumen; wherein

the stent is fashioned from at least one strut, the at least one strut having a transverse cross section, the transverse cross section having a top circumferential side, a bottom circumferential side, a right side and a left side, wherein the top and bottom circumferential sides are substantially flat, and the left and rights sides are substantially curved.

32. (previously presented) The stent of claim 31 wherein the catheter is a balloon catheter.

Claims 33-35 (cancelled)

36. (previously presented) The stent of claim 31 wherein further comprising a second stent section, the second section coupled to the first section.

37. (previously presented) A stent comprising

at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top side joins the left and right sides through a smooth rounded edge, wherein the top side is substantially flat.

38. (previously presented) The stent of claim 37 wherein the bottom side is substantially flat.

39. (previously presented) The stent of claim 37 wherein the left and rights sides are substantially curved.

40. (previously presented) The stent of claim 37 wherein the left and rights sides are substantially flat.

41. (previously presented) The stent of claim 37 wherein the bottom side joins the left side through a smooth rounded edge.